

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

| Necoi | ding bevice for the | Samo | • | | |
|-------------------|---|------------------------------|---------------------------------------|-----------------------|-------|
| the specification | of which is attached hereto ur | less the following is check | ed. | | |
| the openious. | August 25, | | | | |
| was filed | on 2000 as PC | T International Application | n NumberPCT/JP00/05770 and | was amended on | |
| April | 19, 2001, (if applicab | le). | | | |
| | t 15, 2001 and Novemb | | | | |
| was filed | on February 27. as | United States Application 1 | Number 10/069,112 and | was amended on | |
| Febru | $\frac{2002}{27}$ 2002 (if applicab | le). | | | |
| · _reuru | ary, 27, 2002 (approx | | | | |
| | | | | | |
| | | | ve-identified specification, includi | ng the claim(s), as | |
| amended by any | amendment referred to above | | • | | |
| I acknowledge t | he duty to disclose information | which is material to paten | tability as defined in Title 37, Code | e of Federal | |
| Regulations, § 1 | | . | | | |
| | | | | | |
| | | | e, § 119 (a) - (d) of any foreign app | | |
| | icate listed below and have also ore that of the application for v | | ign application for patent or invent | or's certificate navi | ng |
| a ming date ber | ore that of the application for v | vincii priority is claimed. | : | Priority Claime | ed |
| • | 11-241747 Pat. | Japan | 27/August/1999 | X Yes | No |
| (List prior | (Number) | (Country) | (Day/Month/Year Filed) | <u> </u> | |
| foreign | 11-345229 Pat. | Japan | 03/December/1999 | x Yes | No |
| applications. | | | | <u> </u> | 110 |
| See note A) | (Number) | (Country) | (Day/Month/Year Filed) | | |
| • | | | | Yes : | No |
| | (Number) | (Country) | (Day/Month/Year Filed) | | |
| | | | | Yes | No |
| | (Number) | (Country) | (Day/Month/Year Filed) | | |
| (C D) | | | | | |
| (See note B) | See attached list for additi | onal prior foreign applicati | ons | | |
| I hereby claim t | he henefit under Title 35. Unite | ed States Code. 8 120 of an | y United States application(s) liste | d below and, insofa | ır as |
| the subject matt | er of each of the claims of this | application is not disclosed | in the prior United States applicat | ion in the manner | |
| provided by the | first paragraph of Title 35, Uni | ited States Code, § 112, I a | cknowledge the duty to disclose in | formation which is | |
| material to pater | ntability as defined in Title 37, | Code of Federal Regulatio | ns, § 1.56 which became available | between the filing | date |
| of the prior appl | ication and the nationl or PCT | international filing date of | this application. | tatus | |
| | | | | | |
| (List prior U.S. | | | Patented Per | nding Abando | пеп |
| Applications) | (Application Serial No.) | (Filing Date) | | | |
| · ibbem | | | Patented Per | nding Abando | ned |
| | (Application Serial No.) | (Filing Date) | | | |
| | | | Patented Per | nding Abando | ned |
| • | (Application Serial No.) | (Filing Date) | | | |
| | (Application Serial 140.) | (I ming Dute) | D-AA-J D- | _d: | |
| | | | | nding Abando | nea |
| | (Application Serial No.) | (Filing Date) | | | |



2385U PATENT TRADEMARK OFFICE

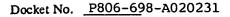
Please direct all communications to the following address:



23850

| (See note C) | Full name of sole or first inventor (given name, family name) Masayuki HATANAKA |
|--------------|---|
| | Inventor's Signature Masaylike Naturaka Date May 17, 2002 |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of second inventor (given name, family name) Jun KAMADA |
| | Inventor's Signature Jun Kamadh Date May 17, 2002 |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of third inventor (given name, family name) Takahisa HATAKEYAMA |
| | Inventor's Signature Jahahisa Hotakeyama Date May 17, 2002 |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| - | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of fourth inventor (given name, family name) Takayuki HASEBE |
| | Inventor's Signature Sahayuki Sarele Date May 17, 2002 |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address C/O FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of fifth inventor (given name, family name) Seigou KOTANI |
| | Inventor's Signature Serge Love Date May 17, 2002 |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of sixth inventor (given name, family name) Shigeki FURUTA |
| | Inventor's Signature Singular Furnity Date May 17, 2002 |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |

| • | |
|-----|--|
| • | Full name of seventh inventor (given name, family name) |
| • | Inventor's Signature Date |
| | Residence Kokubunji-shi, Tokyo, Japan Citizenship Japanese |
| | Post Office Address c/o Central Research Laboratory, HITACHI, LTD., 280, Higashikoigakubo 1-chome, Kokubunji-shi, Tokyo 185-8601 Japan |
| | Full name of eighth inventor (given name, family name) Takeaki ANAZAWA |
| | Inventor's Signature Date |
| | Residence Minato-ku, Tokyo, Japan Citizenship Japanese |
| • | Post Office Address c/o NIPPON COLUMBIA CO., LTD., 14-14, Akasaka 4-chome, Minato-ku, Tokyo 107-8011 Japan |
| | Full name of ninth inventor (given name, family name)Toshiaki HIOKI |
| · | Inventor's Signature Date |
| • | Residence Ogaki-shi, Gifu, Japan Citizenship Japanese |
| | Post Office Address c/o SANYO ELECTRIC CO., LTD., 5-5, |
| | Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| | Miwa Kanamori |
| | Full name of tenth inventor (given name, family name) Miwa KANAMORI Inventor's Signature Date |
| ** | |
| | Residence Ogaki-shi, Gifu, Japan Citizenship Japanese Post Office Address c/o SANYO ELECTRIC CO., LTD., 5-5, |
| | Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| | |
| | Full name of eleventh inventor (given name, family name)Yoshihiro HORI |
| | Inventor's Signature Date |
| | Residence Gifu-shi, Gifu, Japan Citizenship Japanese |
| • | Post Office Address c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| | Full name of twelfth inventor (given name, family name) |
| | Inventor's Signature Date |
| • • | Residence Citizenship |
| | Post Office Address |
| | |
| | Full name of thirteenth inventor (given name, family name) |
| | Inventor's Signature Date |
| | Residence Citizenship |
| | Post Office Address |
| | • |



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| | amendment referred to above. | | · · · · · · · · · · · · · · · · · · · | B(-), |
| I acknowledge the Regulations, § 1.5 | | which is material to paten | ability as defined in Title 37, Code | of Federal |
| | | 24 · ** | | • |
| | | | e, § 119 (a) - (d) of any foreign applies application for patent or invented | |
| | re that of the application for w | | | Priority Claimed |
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| (List prior | (Number) | (Country) | (Day/Month/Year Filed) | |
| foreign applications. | 11-345229 Pat. | Japan | 03/December/1999 | x Yes No |
| See note A) | (Number) | (Country) | (Day/Month/Year Filed) | |
| _ | | | | Yes No |
| • | (Number) | (Country) | (Day/Month/Year Filed) | Yes No |
| | (Number) | (Country) | (Day/Month/Year Filed) | |
| (See note B) | See attached list for additi | onal prior foreign applicati | ons | • . |
| the subject matter provided by the fi material to patent | — benefit under Title 35, Unite of each of the claims of this irst paragraph of Title 35. Uni | ed States Code, § 120 of any application is not disclosed ted States Code, § 112, I ac Code of Federal Regulation | y United States application(s) listed in the prior United States application when the duty to disclose infus, § 1.56 which became available this application. | on in the manner ormation which is petween the filing date atus |
| (List prior U.S. | · (A N C 1111) | (P'11' D-4-) | Patented Pen | ding Abandoned |
| Applications) | (Application Serial No.) | (Filing Date) | Patented Pen | ding Abandoned |
| | (Application Serial No.) | (Filing Date) | | |
| | (Application Serial No.) | (Filing Date) | Patented Pen | ding Abandoned |
| | <u> </u> | | Patented Pen | ding Abandoned |
| | (Application Serial No.) | (Filing Date) | | |
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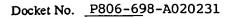


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| (See note C) | Full name of sole or | first inventor (given name, family name) Masayuki HATANAKA |
|--------------|-----------------------|---|
| | Inventor's Signature | Date |
| • | | aki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of second | inventor (given name, family name) Jun KAMADA |
| | | Date Baki-shi, Kanagawa, Japan CitizenshipJapanese |
| | | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | | ventor (given name, family name) Takahisa HATAKEYAMA |
| • | Inventor's Signature | Date |
| | | aki-shi, Kanagawa, Japan Citizenship <u>Japanese</u> |
| | Post Office Address | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of fourth i | nventor (given name, family name) <u>Takayuki HASEBE</u> |
| | Inventor's Signature | Date |
| | | aki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of fifth in | ventor (given name, family name) Seigou KOTANI |
| | Inventor's Signature | Date |
| | Residence Kawasa | aki-shi, Kanagawa, Japan Citizenship Japanese |
| | - | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of sixth in | nventor (given name, family name) Shigeki FURUTA |
| | Inventor's Signature | Date |
| | | aki-shi, Kanagawa, Japan Citizenship <u>Japanese</u> |
| | Post Office Address | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, |

| | Full name of seventh inventor (given name, family name) |
|---|--|
| • | Inventor's Signature Tais Knoshita Date May 13, 2002 |
| | Residence Kokubunji-shi, Tokyo, Japan Citizenship Japanese |
| | Post Office Address c/o Central Research Laboratory, HITACHI, LTD., 280, Higashikoigakubo 1-chome, Kokubunji-shi, Tokyo 185-8601 Japan |
| | Full name of eighth inventor (given name, family name) Takeaki ANAZAWA |
| • | Inventor's Signature Date |
| | Residence Minato-ku, Tokyo, Japan Citizenship Japanese |
| | Post Office Address c/o NIPPON COLUMBIA CO., LTD., 14-14, Akasaka 4-chome, Minato-ku, Tokyo 107-8011 Japan |
| | Full name of ninth inventor (given name, family name)Toshiaki HIOKI |
| | Inventor's Signature Date |
| | Residence Ogaki-shi, Gifu, Japan Citizenship Japanese |
| | Post Office Address C/O SANYO ELECTRIC CO., LTD., 5-5, |
| | Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| | Full name of tenth inventor (given name, family name) Miwa KANAMORI |
| • | Inventor's Signature Date |
| | Residence Ogaki-shi, Gifu, Japan Citizenship Japanese |
| | Post Office Address c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| | Full name of eleventh inventor (given name, family name) Yoshihiro HORI |
| | Inventor's Signature Date |
| | Residence Gifu-shi, Gifu, Japan Citizenship Japanese |
| | Post Office Address c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| | Full name of twelfth inventor (given name, family name) |
| | Inventor's Signature Date |
| • | Residence Citizenship |
| • | |
| • | Post Office Address |
| | Full name of thirteenth inventor (given name, family name) |
| | Inventor's Signature Date |
| | Residence Citizenship |
| | Post Office Address |

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| the specification of | of which is attached hereto un | less the following is check | ed | |
|---|--|--|--|--|
| 5 | August 25, | | | • |
| | | | NumberP <u>CT/JP00/0577</u> 0 an | d was amended on |
| | 9, 2001, (if applicable 2001, 2001) | | | • |
| _ | 15, 2001 and November | | 10 (000 110 | |
| | n February 27. as t | | Number $10/069,112$ and | was amended on |
| _Februar | $\sim \frac{299^2}{2002}$ (if applicable | le). | | • |
| | | • | | • |
| | I have reviewed and understandered to above. | and the contents of the above | ve-identified specification, includ | ing the claim(s), as |
| I acknowledge the | duty to disclose information | which is material to patent | ability as defined in Title 37, Coo | le of Federal |
| Regulations, § 1.5 | | | | |
| | | | | |
| inventor's certifica | | identified below any forei | , § 119 (a) - (d) of any foreign ap gn application for patent or inven | |
| | | • | · : | Priority Claimed |
| _ | 11-241747 Pat. | Japan | 27/August/1999 | _x Yes _ No |
| (List prior | (Number) | (Country) | (Day/Month/Year Filed) | - |
| foreign applications | 11-345229 Pat. | Japan | 03/December/1999 | x Yes No |
| See note A) | (Number) | (Country) | (Day/Month/Year Filed) | |
| • | (| . (2.5.1.2.3) | | Yes No |
| - | (Number) | (Country) | (Day/Month/Year Filed) | |
| • | (Ivainoci) | (Country) | (Day/Month Teal Theu) | Yes No |
| - | | | | res no |
| | (Number) | (Country) | (Day/Month/Year Filed) | |
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| ` | | · · · · · · · · · · · · · · · · · · · | | • |
| the subject matter provided by the fu material to patenta | of each of the claims of this a | application is not disclosed ted States Code, § 112, I ac Code of Federal Regulation | y United States application(s) lister in the prior United States application when the duty to disclose in its, § 1.56 which became available this application. | tion in the manner aformation which is between the filing date |
| | | | Patented Pe | ending Abandoned |
| (List prior U.S. Applications) | (Application Serial No.) | (Filing Date) | Patented Pe | ending Abandoned |
| | (Application Serial No.) | (Filing Date) | | |
| | | · | Patented De | ending Abandoned |
| | (Application Social No.) | (Filing Data) | | 210011001100 |
| | (Application Serial No.) | (Filing Date) | <u>.</u> | |
| | | | Patented Pe | ending Abandoned |
| | (Application Serial No.) | (Filing Date) | | |
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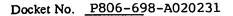


23850

PATENT TRADEMARK OFFICE

| (See note C) | Full name of sole or first inventor (given name, family name) Masayuki HATANAKA |
|--------------|---|
| | Inventor's Signature Date |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of second inventor (given name, family name) Jun KAMADA |
| | Inventor's Signature Date |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of third inventor (given name, family name) Takahisa HATAKEYAMA |
| | Inventor's Signature Date |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of fourth inventor (given name, family name) Takayuki HASEBE |
| | Inventor's Signature Date |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of fifth inventor (given name, family name) Seigou KOTANI |
| | Inventor's Signature Date |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan |
| | Full name of sixth inventor (given name, family name) Shigeki FURUTA |
| | Inventor's Signature Date |
| | Residence Kawasaki-shi, Kanagawa, Japan Citizenship Japanese |
| | Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, |

| • | |
|---|--|
| | |
| • | Full name of seventh inventor (given name, family name) |
| | Inventor's Signature Date |
| | Residence Kokubunji-shi, Tokyo, Japan Citizenship Japanese |
| | Post Office Address c/o Central Research Laboratory, HITACHI, LTD., 280, Higashikoigakubo 1-chome, Kokubunji-shi, Tokyo 185-8601 Japan |
| | Full name of eighth inventor (given name, family name) Takeaki ANAZAWA |
| | Inventor's Signature Date Date Date May 7, 2002 |
| | Residence Minato-ku, Tokyo, Japan / Citizenship Japanese |
| | Post Office Address c/o NIPPON COLUMBIA CO., LTD., 14-14, Akasaka 4-chome, Minato-ku, Tokyo 107-8011 Japan |
| | Full name of ninth inventor (given name, family name)Toshiaki HIOKI |
| | Inventor's Signature Date |
| | Residence Ogaki-shi, Gifu, Japan Citizenship Japanese |
| | Post Office Address c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japa |
| | Full name of tenth inventor (given name, family name)Miwa KANAMORI |
| | Inventor's Signature Date |
| | Residence Ogaki-shi, Gifu, Japan Citizenship Japanese |
| | Post Office Address c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japa |
| | Full name of eleventh inventor (given name, family name) Yoshihiro HORI |
| | Inventor's Signature Date |
| | Residence Gifu-shi, Gifu, Japan Citizenship Japanese |
| | Post Office Address c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japa |
| | Full name of twelfth inventor (given name, family name) |
| | Inventor's Signature Date |
| | Residence Citizenship |
| | Post Office Address |
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| - Februar | ry 27, 2002 (11 applicati | ne). | | |
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| amended by any a | amendment referred to above. | | | |
| | | • | | én i i |
| | | which is material to paten | tability as defined in Title 37, Code | of Federal |
| Regulations, § 1.5 | . | | | |
| I hereby claim for | reign priority benefits under T | Fitle 35. United States Code | e, § 119 (a) - (d) of any foreign appl | ication(s) for patent or |
| | | | gn application for patent or invento | |
| | re that of the application for w | | - | • |
| | | | : | Priority Claimed |
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| * | | | | |
| (See note B) | See attached list for additi | onal prior foreign applicati | ons | |
| T hambu alaim the | hanafitundas Titla 25 Ilaita | d States Code & 120 of an | y United States application(s) listed | helow and insofar as |
| i nereby ciaim un | of each of the claims of this | annlication is not disclosed | in the prior United States application | on in the manner |
| nrovided by the fi | irst paragraph of Title 35. Uni | ited States Code. § 112. I a | knowledge the duty to disclose info | ormation which is |
| material to patent | ability as defined in Title 37, | Code of Federal Regulation | ns, § 1.56 which became available b | etween the filing date |
| of the prior applic | cation and the nationl or PCT | international filing date of | this application. | |
| | | • | | itus |
| | | | Patented Pen | ding Abandoned |
| (List prior U.S. | (Application Serial No.) | (Filing Date) | | |
| Applications) | | | Patented Pen | ding Abandoned |
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| (See note C) | Full name of sole or | first inventor (given name, family name) Masayuki HATANAKA | · |
|--------------|------------------------|---|---|
| | Inventor's Signature | Date | |
| | | aki-shi, Kanagawa, Japan Citizenship Japanese | |
| | | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan | |
| | Full name of second | inventor (given name, family name) Jun KAMADA | |
| | Inventor's Signature - | Date | |
| | | aki-shi, Kanagawa, Japan Citizenship Japanese | |
| · · | Post Office Address | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan | |
| | Full name of third in | ventor (given name, family name) Takahisa HATAKEYAMA | |
| | Inventor's Signature | Date | |
| | | aki-shi, Kanagawa, Japan Citizenship <u>Japanese</u> | |
| | Post Office Address | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan | |
| | Full name of fourth i | nventor (given name, family name) <u>Takayuki HASEBE</u> | |
| | Inventor's Signature | Date | |
| | | aki-shi, Kanagawa, Japan Citizenship Japanese | |
| | Post Office Address | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan | |
| | Full name of fifth in | ventor (given name, family name) Seigou KOTANI | |
| | Inventor's Signature | Date | |
| | | aki-shi, Kanaqawa, Japan Citizenship Japanese | |
| | | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan | |
| | Full name of sixth in | ventor (given name, family name) Shigeki FURUTA | |
| | Inventor's Signature | Date | |
| | | aki-shi, Kanagawa, Japan Citizenship Japanese | |
| | Post Office Address | c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan | |

| Full name of seventh in | nventor (given name, family name) |
|-------------------------|--|
| Inventor's Signature | Date |
| Residence Kokubur | nji-shi, Tokyo, Japan Citizenship Japanese |
| 2 | c/o Central Research Laboratory, HITACHI, LTD., 280, Higashikoigakubo 1-chome, Kokubunji-shi, Tokyo 185-8601 Japan |
| Full name of eighth inv | rentor (given name, family name)Takeaki ANAZAWA |
| Inventor's Signature | Date |
| Residence <u>Minato</u> | -ku, Tokyo, Japan Citizenship Japanese |
| | c/o NIPPON COLUMBIA CO., LTD., 14-14, Akasaka 4-chome, Minato-ku, Tokyo 107-8011 Japan |
| Full name of ninth inve | entor (given name, family name)Toshiaki HIOKI |
| Inventor's Signature | Tother + Date Apr. 26, 2002 |
| | shi, Gifu, Japan Citizenship Japanese |
| | c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| Full name of tenth inve | ntor (given name, family name)Miwa KANAMORI |
| Inventor's Signature | Mina Lanamori Date Apr. 26. 2002 |
| Residence Ogaki-s | shi, Gifu, Japan Citizenship Japanese |
| | c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| Full name of eleventh i | nventor (given name, family name) Yoshihiro HORI |
| | Mashihio Mori Date Apr 26. 2002 |
| | ni, Gifu, Japan Citizenship Japanese |
| | c/o SANYO ELECTRIC CO., LTD., 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka 570-8677 Japan |
| Full name of twelfth in | ventor (given name, family name) |
| Inventor's Signature | Date |
| Residence | Citizenship |
| Post Office Address | |
| Full name of thirteenth | inventor (given name, family name) |
| Inventor's Signature | Date |
| Residence | Citizenship |
| Post Office Address | |

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